NCS DATA LOAD PROCEDURE

1. <u>VERIFY TIME CONSTRAINTS FOR DATA LOAD</u>

    ┌───┐
    │   NOTE: │
    │   │
    │ Determine if the Load requires a continuous uplink session or can be done with │
    │   ZOEs.   │
    │   │
    │ Verify if the selected communications path supports performing the load in a │
    │   reasonable amount of time for the MDM checksum safing response to be disabled. │
    │   │
    └───┘

2. <u>LOG MDM CHECKSUMS</u>

    sel   Software Health
    record   CSCI Version ID   _____

3. <u>SELECT LOAD IMAGE FILE TO UPLINK</u>

DNAV   Command Inventory: Data Load Preparation
    │ Data Load Preparation │

    sel   Select Load File
    Navigate to the load image file you want to uplink
    If load image file is a PPL
        √ Version - <is correct version>

    ┌───┐
    │   NOTE: │
    │ The user must select the proper version of the load image file. There will be separate │
    │   files for loads to DRAM and EEPROM. For PPLs there is only one file. For │
    │   Adapation data there may be multiple files for a single update. For Software loads │
    │   there may be only one large file.   │
    └───┘

    √ Destination Device - (N1-1,N1-2, N1 Primary, N1 Secondary)

        If load is to DRAM:
            √ Memory Location - DRAM
        If load is to EEPROM:
            √ Memory Location - EEPROM

    √ Start Address - (should correspond to the address specified in the VDD)
    √ Word Count - (should correspond to the size specified in the VDD)

Optional:
    √ Metering Rate - should be 1.00 for OIU cmd path, .67 for Early Comm
    input   Priority - (None, High, Urgent, Critical)
    input   Uplink after: (time to uplink data load after)
    input   Uplink by: (time to perform uplink by)
    input   Remarks: (Remarks to FMT Manager)

  sel   Submit to FMT

4. COORDINATION WITH THE FMT MANAGER

DVIS   Call ODIN on the FMT DVIS loop to coordinate Uplink request. ODIN will perform
        MDM configuration and uplink of data load.

5. VIEWING LOAD STATUS

CDDT Node 1:C&DH:Primary(Secondary) MDM

    | NODE 1:C&DH:MDM:Primary(Secondary) |

√ Frame Count - <Incrementing>   (MDM is operational)

> NOTE:
> Checksum errors may occur during the load process.
>   Sel   MDM BIT Status
>   √ BST A word # 24 - X
>   √ BST A word # 2 - X

DNAV Uplink Manager

    | Uplink FMT Manager |

√FMT_Load_Status- 100% complete
Record   Data Load Commands   _____

6. MAKING DATA LOAD PERMANENT

Repeat this procedure if also loading to EEPROM.